Author Index of Volume 35

Aghakian P., 59
Aldaz, A., 225

Baldsing, W. G. A., 385
Banov, B., 175
Bass, K., 333
Blom, H., 59
Brenet, J., 91

Chakkaravarthy, C., 21
Chew, A., 421
Climent, M. A., 225
Codina, G., 225
Compagnone, N. F., 97

Dahn, J. R., 59
Das, K., 183
Delmas, C., 249, 263, 279
Denis, B., 59
Dudley, J. T., 59
Dymond, M. S., 359

Ema, K., 123

Faure, C., 249, 263, 279
Fey, G. T.-K., 143, 153
Fouassier, M., 249, 279

Geraghty, R., 421
Gopalakrishnan, J., 163
Gupta, A., 305

Hamilton, J. A., 385
Hashimoto, E., 411
Hawkins, J. M., 417
Hedge, M. S., 163
Hollenkamp, A. F., 385
Hong, D. R., 399
Horvath, C., 59

Ilchev, N., 175
Ito, Y., 123
Ivanov, A. S., 291

Jayalakshmi, M., 131
Jegannathan, S., 21
Jonshagen, B., 405
Juric, P., 59
Juzkow, M. W., 59

Kannan, A. M., 113, 163
Kasherman, D., 399
Kaushik, R., 377
Kazacos, M., 399
Kumagai, N., 313
Kuzminsky, E. V., 291

Lee, T. J., 143
LeVae, R., 59
Lopez-Atalaya, M., 225

Mashkin, O. A., 291
Mawston, I. G., 377
Mitchell, P. J., 333
Mondal, A., 183
Morishige, T., 365
Muralidharan, V. S., 131
Murthy, A. S. N., 305

Newnham, R. H., 385
Novák, P., 235

Perez, J. R., 225
Periasamy, P., 21
Phillips, S. J., 359
Podhájecký, P., 235
Pryor, T. L., 359

Ramanathan, C. S., 83
Rand, D. A. J., 385
Remmer, D. P., 359
Rice Bullock, K., 197

Seip, K. L., 37
Sheridan, N. R., 371
Shukla, A. K., 113, 163
Singh, P., 405
Skyllas-Kazacos, M., 399
Smith, J., 333
Spindler, W. C., 395
Steffens, F., 1
Su, K. H., 189

Tanifuji, S., 313
Tanno, K., 313
Thomas, G., 59
Thorstensen, B., 37
Tsubota, M., 355

Vasu, K. I., 21
Vazquez, J. L., 225

Wade, M., 421
Walton, A., 431
Wang, H., 37
Wilcox, G. D., 333
Wilkinson, D. P., 59
Willman, P., 249, 263
Woo, S., 59

Xie, G., 123

Yang, S. C., 189
Yao, P. C., 143

Elsevier Sequoia, Lausanne

Subject Index of Volume 35

Alkaline carbonate solutions
passivation of Fe in alkaline carbonate solutions, 131
Autonomous renewable energy systems
batteries for, 371

Battery(ies)
for autonomous renewable energy systems, 371
characteristics and performance of 1 kW UNSW V redox battery, 399
conductivity of electrolytes for rechargeable Li batteries, 59
coulombic efficiency of lead/acid batteries, particularly in RAPS systems, 377
development of lead/acid batteries for photovoltaic power systems, 355
electrochemical characteristics of MnO_2–V_2O_5 composites serving as positive material for secondary Li batteries, 313
experiences with lead/acid battery management in RAPS systems, 359
lead/acid batteries in utility energy storage and power control applications, 395
Li/SO_2 rechargeable batteries, 153
new battery testing facility, 417
Ni/Fe battery, 21
operation and management of batteries in photovoltaic power systems under development in Japan, 365
performance of lead/acid batteries in RAPS applications, 385
test facility for determining performance of storage batteries for photovoltaic applications, 411
Zn/Br battery for energy storage, 405
Battery energy storage control
solar energy, 1
Battery performance
monitoring battery performance in RAPS systems, 421
Bromine
Zn–Br battery for energy storage, 405

Cadmium
characterization of Cd-doped Cu In sulphide films prepared by two-step technique, 305
Calcium sulphate
influence of Ca sulphate in positive material on discharge performance of lead/acid batteries, 83
Cell(s)
behaviour of Cr(III)/Cr(II) reaction on Au–graphite electrodes; application to redox flow storage cell, 225
charge–discharge behaviour of Pb/Hg cell in aqueous sulphuric acid, 183
electromotive force of lead–acid cell and its half-cell potentials, 197
high-temperature Li–CuO cell with solid polymer electrolyte, 235
Li–MnO_2 cell; relationship between physicochemical properties and electrochemical characteristics of MnO_2 in nonaqueous electrolytes, 175
methods for reduction of shape change and dendritic growth in Zn-based secondary cells, 333
new equation for limiting capacity of lead/acid cell, 97
Raman and ^7Li NMR spectroscopic studies of Li/SO_2 rechargeable cells, 143
rechargeable Fe/air cells employing bifunctional oxygen electrodes of oxide pyrochlores, 113
Charge–discharge behaviour
of Pb/Hg cell in aqueous sulphuric acid, 183
Charge–discharge units
simple electrical circuit for computer-controlled operation of battery charge/discharge units, 189
Chromium
behaviour of Cr(III)/Cr(II) reaction on Au–graphite electrodes; application to redox flow storage cell, 225
Coal
Environmental impacts of energy facilities; fuel cell technology compared

with coal and conventional gas technology, 37
Cobalt
preparation and characterization of Co-substituted α-Ni hydroxide stable in KOH medium
α'-hydroxide with ordered packing, 249
α-hydroxide with turbostratic structure, 263
Computer-controlled operation
simple electrical circuit for computer-controlled operation of battery charge/discharge units, 189
Conductivity
of electrolytes for rechargeable Li batteries, 59
Copper indium sulphide
characterization of Cd-doped Cu In sulphide films prepared by two-step technique, 305
Copper oxide
high-temperature Li–CuO cell with solid polymer electrolyte, 235
Coulombic efficiency
in lead/acid batteries, particularly in RAPS systems, 377
Counter cations
effect of counter cations on electrocatalytic activity of oxide pyrochlores towards oxygen reduction/evolution in alkaline medium; electrochemical and spectroscopic study, 163

Dendritic growth
methods for reduction of shape change and dendritic growth in Zn-based secondary cells, 333
Discharge performance
influence of Ca sulphate in positive material on discharge performance of lead/acid batteries, 83

Electrical circuit
simple electrical circuit for computer-controlled operation of battery charge–discharge units, 189
Electrocatalytic activity
effect of counter cations on electrocatalytic activity of oxide pyrochlores towards oxygen reduction/evolution in alkaline medium; electrochemical and spectroscopic study, 163
Electrochemical and catalytic reactivity
of Mn dioxides, 91
Electrochemical characteristics
Li–MnO_2 cell; relationship between physicochemical properties and electrochemical characteristics of MnO_2 in nonaqueous electrolytes, 175
of MnO_2–V_2O_5 composites serving as positive material for secondary Li batteries, 313
Electrode(s)
behaviour of Cr(III)/Cr(II) reaction on Au–graphite electrodes; application to redox flow storage cell, 225
rechargeable Fe/air cells employing bifunctional oxygen electrodes of oxide pyrochlores, 113
Electrolyte(s)
conductivity of electrolytes for rechargeable Li batteries, 59
high-temperature Li–CuO cell with solid polymer electrolyte, 235
Electromotive force
of lead–acid cell and its half-cell potentials, 197
Energy facilities
environmental impacts of energy facilities; fuel cell technology compared with coal and conventional gas technology, 37
Energy storage
lead/acid batteries in utility energy storage and power control applications, 395
solar energy; battery energy storage control, 1
Zn–Br battery for energy storage, 405
Environmental impacts
of energy facilities; fuel cell technology compared with coal and conventional gas technology, 37

Fuel cell technology
environmental impacts of energy facilities; fuel cell technology compared with coal and conventional gas technology, 37

Gas technology
environmental impacts of energy facilities; fuel cell technology compared with coal and conventional gas technology, 37

Gold
behaviour of Cr(III)/Cr(II) reaction on Au–graphite electrodes; application to redox flow storage cell, 225
Graphite
behaviour of Cr(III)/Cr(II) reaction on Au–graphite electrodes; application to redox flow storage cell, 225

Half-cell potentials
electromotive force of lead–acid cell and its half-cell potentials, 197

Iron
Ni/Fe battery, 21
passivation of Fe in alkaline carbonate solutions, 131
rechargeable Fe/air cells employing bifunctional oxygen electrodes of oxide pyrochlores, 113

Japan
operation and management of batteries in photovoltaic power systems under development in Japan, 365

Lead/acid batteries
coulombic efficiency of lead/acid batteries, particularly in RAPS systems, 377
development of lead/acid batteries for photovoltaic power systems, 355
influence of Ca sulphate in positive material on discharge performance of lead/acid batteries, 83
performance of lead/acid batteries in RAPS applications, 385
in utility energy storage and power control applications, 395
Lead/acid battery management
experiences with lead/acid battery management in remote-area power-supply (RAPS) systems, 359
Lead/acid cell
electromotive force of lead–acid cell and its half-cell potentials, 197
new equation for limiting capacity of lead/acid cell, 97
Lead/mercury cell
charge–discharge behaviour of Pb/Hg cell in aqueous sulphuric acid, 183
Limiting capacity
new equation for limiting capacity of lead/acid cell, 97
Lithium
conductivity of electrolytes for rechargeable Li batteries, 59
electrochemical characteristics of MnO_2–V_2O_5 composites serving as positive material for secondary Li batteries, 313
high-temperature Li–CuO cell with solid polymer electrolyte, 235
Li–MnO_2 cell; relationship between physicochemical properties and electrochemical characteristics of MnO_2 in nonaqueous electrolytes, 175
Li/SO_2 rechargeable batteries, 153
organometallic compounds in Li anode power sources, 291
Raman and ^{7}Li NMR spectroscopic studies of Li/SO_2 rechargeable cells, 143
Load management
in RAPS systems, 431

Manganese
electrochemical characteristics of MnO_2–V_2O_5 composites serving as positive material for secondary Li batteries, 313
Manganese dioxide(s)
characterization of electrochemical and catalytic reactivity of Mn dioxides, 91
Li–MnO_2 cell; relationship between physicochemical properties and electrochemical characteristics of MnO_2 in nonaqueous electrolytes, 175
Mercury
charge–discharge behaviour of Pb/Hg cell in aqueous sulphuric acid, 183
Molten-carbonate fuel cell anode
mechanism of *in situ* surface modification of molten-carbonate fuel cell anode, 123

Nickel
Ni/Fe battery, 21
Nickel hydroxide
characterization of turbostratic α-Ni hydroxide quantitatively from $NiSO_4$ solution, 279
preparation and characterization of Co-substituted α-Ni hydroxides stable in KOH medium
α'-hydroxide with ordered packing, 249
α-hydroxide with turbostratic structure, 263

NMR spectroscopy
Raman and ^{7}Li NMR spectroscopic studies of Li/SO_2 rechargeable cells, 143

Oxide pyrochlores
effect of counter cations on electrocatalytic activity of oxide pyrochlores towards oxygen reduction/evolution in alkaline medium; electrochemical and spectroscopic study, 163
rechargeable Fe/air cells employing bifunctional oxygen electrodes of oxide pyrochlores, 113
Organometallic compounds
in Li anode power sources, 291
Oxygen electrodes
rechargeable Fe/air cells employing bifunctional oxygen electrodes of oxide pyrochlores, 113
Oxygen reduction/evolution
effect of counter cations on electrocatalytic activity of oxide pyrochlores towards oxygen reduction/evolution in alkaline medium; electrochemical and spectroscopic study, 163

Passivation
of Fe in alkaline carbonate solutions, 131
Photovoltaic applications
test facility for determining performance of storage batteries for photovoltaic applications, 411
Photovoltaic power systems
development of lead/acid batteries for photovoltaic power systems, 355
operation and management of batteries in photovoltaic power systems under development in Japan, 365
Physicochemical properties
Li–MnO_2 cell; relationship between physicochemical properties and electrochemical characteristics of MnO_2 in nonaqueous electrolytes, 175
Positive material
electrochemical characteristics of MnO_2–V_2O_5 composites serving as positive material for secondary Li batteries, 313
influence of Ca sulphate in positive material on discharge performance of lead/acid batteries, 83
Power control applications
lead/acid batteries in utility energy storage and power control applications, 395

Raman spectroscopic studies
Raman and ^{7}Li NMR spectroscopic studies of Li/SO_2 rechargeable cells, 143
Redox battery
characteristics and performance of 1 kW UNSW V redox battery, 399
Redox flow storage cell
behaviour of Cr(III)/Cr(II) reaction on Au–graphite electrodes; application to redox flow storage cell, 225
Remote-area power-supply (RAPS) applications
performance of lead/acid batteries in RAPS applications, 385
Remote-area power-supply (RAPS) systems
coulombic efficiency of lead/acid batteries, particularly in RAPS systems, 377
experiences with lead/acid battery management in RAPS systems, 359
load management in RAPS systems, 431
monitoring battery performance in RAPS systems, 421

Shape change
methods for reduction of shape change and dendritic growth in Zn-based secondary cells, 333
Solar energy
battery energy storage control, 1
Storage batteries
test facility for determining performance of storage batteries for photovoltaic applications, 411
Sulphur dioxide
Li/SO_2 rechargeable batteries, 153
Raman and ^{7}Li NMR spectroscopic studies of Li/SO_2 rechargeable cells, 143
Surface modification
mechanism of *in situ* surface modification of molten-carbonate fuel cell anode, 123

Test facility
for determining performance of storage batteries for photovoltaic applications, 411
new battery testing facility, 417

Vanadium
characteristics and performance of 1 kW UNSW V redox battery, 399
electrochemical characteristics of MnO_2–V_2O_5 composites serving as positive material for secondary Li batteries, 313

Zinc
methods for reduction of shape change and dendritic growth in Zn-based secondary cells, 333
Zn–Br battery for energy storage, 405